

ANNUAL REPORT OF THE OHIO ACADEMY OF SCIENCE
1952

Organized 1891 Incorporated 1892
Affiliated with the American Association for the Advancement of Science

OFFICERS AND COMMITTEES FOR 1952-1953

President

GLENN W. BLAYDES

Vice-Presidents

- | | |
|---|--|
| A. <i>Zoology:</i> W. C. KRAATZ | G. <i>Geography:</i> C. L. DOW |
| B. <i>Plant Sciences:</i> H. C. EYSTER | H. <i>Chemistry:</i> E. R. CALEY |
| C. <i>Geology:</i> R. P. GOLDTHWAIT | I. <i>Mathematics:</i> LUTHER SHETLER |
| D. <i>Medical Sciences:</i> G. J. HAMWI | J. <i>Science Education:</i> CECIL RISER |
| E. <i>Psychology:</i> G. A. KELLEY | K. <i>Anthropology and Sociology:</i> |
| F. <i>Physics and Astronomy:</i> W. R. KOCH | W. H. SASSAMAN |
| | L. <i>Conservation:</i> F. H. GLENNY |

Secretary

RUSH ELLIOTT

Treasurer

R. M. GEIST

Historian

W. H. ALEXANDER

COMMITTEES

Executive Committee

Ex-officio: G. W. BLAYDES, RUSH ELLIOTT, R. M. GEIST

Elective: R. A. POPHAM AND W. H. SHIDELER

Membership

- | | |
|---|---|
| A. <i>Zoology</i> : ALVAH PETERSON | G. <i>Geography</i> : MILDRED DANKLEFSEN |
| B. <i>Plant Sciences</i> : ELTON PADDOCK | H. <i>Chemistry</i> : D. R. CLIPPINGER |
| C. <i>Geology</i> : H. F. DONNER | I. <i>Mathematics</i> : L. L. LOWENSTEIN |
| D. <i>Medical Sciences</i> : H. G. SCHLUMBERGER | J. <i>Science Education</i> : C. E. HOEL |
| E. <i>Psychology</i> : | K. <i>Anthropology and Sociology</i> : A. C. MAHR |
| F. <i>Physics and Astronomy</i> : W. H. SHAFFER | L. <i>Conservation</i> : C. S. JOHNSON |

Nominating

VICE-PRESIDENTS of 1951-1952, A. N. SOLBERG, Chairman

Program

VICE-PRESIDENTS AND SECRETARY

Election of Fellows

VICE-PRESIDENTS AND SECRETARY

Library

ACADEMY LIBRARIAN, MORTON COBURN, Chairman

- W. M. TIDD.....Term expires 1953 W. C. BEAVER.....Term expires 1955

Publications

SECRETARY, Chairman

- | | |
|-------------------|-------------------|
| W. M. TIDD..... | Term expires 1953 |
| W. C. BEAVER..... | Term expires 1955 |

Resolutions

A. W. LINDSEY, Chairman Term expires 1953

- G. B. BARBOUR.....Term expires 1954
W. A. MANUEL.....Term expires 1955

Necrology

H. H. M. BOWMAN, Chairman,
Term expires 1953

Trustees of Research Fund

G. B. BARBOUR, Chairman,
Term expires 1953

A. E. WALLER.....	Term expires 1954
J. H. MELVIN.....	Term expires 1955

K. G. A. BUSCH.....	Term expires 1954
E. S. THOMAS.....	Term expires 1955

THE OHIO JOURNAL OF SCIENCE 52(4): 229, July, 1952.

Academy Representatives

1. On the Joint Administrative Board of the Ohio Journal of Science:
 W. M. TIDD.....Term expires 1953
 W. C. BEAVER.....Term expires 1955
2. On the Council of the A. A. A. S.: GUYBERT P. CAHOON.

The Council for 1952-1953

G. W. BLAYDES	E. L. GREEN	R. A. POPHAM
G. B. BARBOUR	R. P. GOLDTHWAIT	ALVAH PETERSON
W. C. BEAVER	F. H. GLENNY	ELTON PADDOCK
MORTON COBURN	G. J. HAMWI	CECIL RISER
E. R. CALEY	C. E. HOEL	W. H. SHIDELER
D. R. CLIPPINGER	C. S. JOHNSON	LUTHER SHETLER
C. L. DOW	W. C. KRAATZ	W. H. SASSAMAN
H. F. DONNER	G. A. KELLEY	H. G. SCHLUMBERGER
MILDRED DANKLEFSEN	W. R. KOCH	W. H. SHAFFER
RUSH ELLIOTT	F. H. KRECKER	E. S. THOMAS
H. C. EYSTER	L. L. LOWENSTEIN	W. M. TIDD
R. M. GEIST	A. C. MAHR	J. N. WOLFE

REPORT OF THE SIXTY-FIRST ANNUAL MEETING OF THE OHIO ACADEMY OF SCIENCE

The sixty-first annual meeting was held on the campus of Kent State University, our first meeting on this campus, on April 17, 18 and 19. Excellent facilities were made available for all phases of the program. Registration for the Senior Academy was almost 600, and there are always many in attendance who fail to register.

Programs were presented by all sections of the Academy, except Psychology, the newly-formed section in Conservation meeting for the first time with a full program and excellent attendance. An early morning "Bird Walk" and a Geology field trip were held on Saturday. The fourth Annual Science Day of the Junior Academy was the largest and most successful of any to date, there being 175 exhibits presented. Commercial exhibits, which are becoming a more important part of the meeting each year, were made by seventeen companies.

The annual banquet and business meeting were held in the Student Union ballroom on Friday evening at 6:30. Dr. H. F. Raup served as toastmaster and Dean R. L. Clark extended greetings from Kent State University. Dr. E. S. Thomas gave the response for the Academy. The presidential address by Dr. W. H. Shideler was titled, "Paleontology and Evolution."

The annual report of the Secretary which summarized the past year's activities included a report on members added, there having been 276 new individual memberships, six new Corporation Memberships and nine new Institution Memberships.

The following persons were announced as newly elected Fellows of the Academy:

A. C. BARNES	A. J. HAMMER	ERIC OGDEN
H. D. BROWN	W. D. HAMRICK	W. P. PORTER
MRS. L. D. COULTER	G. J. HAMWI	E. M. REDDING
H. A. CUNNINGHAM	C. H. HOBBS	C. V. RILEY
G. DELOACHE	N. W. HOVEY	H. G. SCHLUMBERGER
L. P. EBLIN	K. W. HUNT	H. C. SEIBERT
E. H. ELLISON	F. L. JAMES	R. W. STACY
J. W. GEBHART	C. S. JOHNSON	VIOLET R. STRAHLER
F. H. GLENNY	T. J. JOHNSON	R. L. WALP
E. E. GOOD	K. P. KLASSEN	G. P. ZIMMER
	A. G. MCQUATE	

The membership approved amendments to provide for the formation of a Section on Conservation and the discontinuance of the Conservation Committee; for membership to become effective immediately upon receipt of the application and dues; and for certain changes in the election of Fellows.

Dr. F. H. Kreeker, secretary of the Junior Academy, announced that the awards for outstanding high school teachers were being presented to Mrs. L. D. Coulter, Crestview Junior High School, Columbus; Daniel C. Fast, North Baltimore; Fred W. Fox, McGuffey High School, Oxford; Asa Haskins, Pomeroy; and Alfred G. Linschied, Shaker Heights.

The Ohio Journal of Science Award for Excellence in Research was presented to a member of the Chemistry Section this year, the award going to Dr. E. R. Caley of Ohio State Uni-

versity. The award was presented by Dr. B. M. Norton, vice-president of the Chemistry Section.

The report of the Necrology Committee was presented by Dr. H. H. M. Bowman, of the Nominating Committee by Dr. J. O. Fuller and of the Resolutions Committee by Dr. H. R. Eggleston.

Respectfully submitted,

RUSH ELLIOTT, *Secretary*.

REPORT OF THE EXECUTIVE COMMITTEE AND COUNCIL

The Executive Committee met on November 30, 1951, and again on April 17, 1952, and the Council on December 1, 1951, and again on April 17, 1952.

The Council approved the appointment of Morton Coburn as the Academy Librarian. The preparation of certain amendments to the Constitution and By-Laws by the Secretary was authorized. These have been referred to in the Report on the Annual Meeting.

The Council accepted with regret the resignation of Dr. Eugene Van Cleef as chairman of a special committee on Corporation Memberships. Dr. Van Cleef has done an outstanding job in initiating a plan for Corporation and Institution Memberships and in securing Corporation Memberships. A resolution of thanks for Dr. Van Cleef was voted by the Council.

A special committee on "Ohio Flora" (Dr. Lucy Braun, chairman, Dr. G. W. Blaydes, Dr. J. A. Herrick, Dr. E. S. Thomas and Dr. J. N. Wolfe) has been at work during the year and reports considerable progress to date.

The Council passed a motion that the incoming President appoint a person to serve as Public Relations Director for the Academy.

The 1953 Annual Meeting is to be held at Ohio State University on April 23, 24 and 25; the 1954 meeting as a part of the sesquicentennial program of Ohio University on April 15, 16 and 17; the 1955 meeting at Ohio Wesleyan University and the 1956 meeting at Bowling Green State University.

Respectfully submitted,

RUSH ELLIOTT, *Secretary*.

REPORT OF THE TREASURER

COLUMBUS, OHIO, April 18, 1952.

To the Ohio Academy of Science:

I submit herewith a financial statement of the condition of The Ohio Academy of Science as of December 31, 1951. The books have been audited and the opinion of the auditor is herewith attached.

Respectfully submitted,

ROBERT M. GEIST, *Treasurer*.

OHIO ACADEMY OF SCIENCE STATEMENT OF INCOME AND EXPENSE

For the year ending December 31, 1951

CURRENT EXPENSE FUND

INCOME:

Membership dues 1951 and prior years.....	\$3,666.50
Sale of publications.....	36.73
Interest on U. S. Savings Bonds.....	47.50
Treasurer, Ohio Psychological Association.....	25.00
Total Income.....	<u>\$3,775.73</u>

EXPENSES:

Subscriptions and Engraving (Journal).....	\$2,249.63
Printing News Letters, Junior Academy.....	128.50
Printing Annual Report.....	101.88
Postage, Printing, Bank Charges, Office Expense, Auditing, etc.....	<u>1,217.07</u>
Total Expense.....	<u>3,697.08</u>
Excess of Income over Expenses.....	\$ 78.65

RESEARCH FUND

INCOME:

Interest on Bonds.....	\$ 59.50	
Dividends on Stock.....	25.00	
Grant, A.A.A.S.....	270.50	
		\$ 355.00

EXPENSES:

Grant—Ethel M. Miller.....	\$ 100.00	
Grant—Elizabeth W. Smith.....	70.50	
Grant—E. Lucy Braun, Ohio Flora.....	200.00	
Bank Charges.....	1.28	
		371.78

Excess *Expenses* over Income.....\$ 16.78

CASH BALANCES

CURRENT EXPENSE FUND

Cash Balance—January 1, 1951.....	\$ 997.38	
Net Cash Receipts.....	3,820.98	
		\$4,818.36
Less: Expenses.....		3,697.08

Cash Balance—December 31, 1951.....\$1,121.28

RESEARCH FUND:

Cash Balance—January 1, 1951.....	\$ 331.81	
Net Receipts.....	355.00	
		\$ 686.81
Less: Expenses.....		371.78

Less: Academy money deposited.....\$ 315.03
23.75

Cash Balance—December 31, 1951.....\$ 291.28

AUDITOR'S CERTIFICATE

January 25, 1952.

The Ohio Academy of Science, Columbus, Ohio.

GENTLEMEN:

In accordance with your request, we have audited the records of the Treasurer of The Ohio Academy of Science for the year ended December 31, 1951.

All recorded cash receipts were traced to the bank and found to have been deposited intact. Cancelled checks were on file for all disbursements and were examined. Cash balances were verified by certificates obtained from the banks.

The securities held in the two funds were verified by examination and the income therefrom properly accounted for. The securities are held in a safety deposit box at The Huntington National Bank.

In my opinion, based on such examination the statements presented herewith present the financial condition of The Ohio Academy of Science as of December 31, 1951, and the transactions for the year January 1, 1951, to December 31, 1951.

Respectfully submitted,

JESSE H. BALDWIN.

REPORT OF THE TRUSTEES OF THE RESEARCH FUND

To the Ohio Academy of Science:

The Trustees of the Research Fund present the following report of receipts and expenditures during the past year.

TECEIPTS:

Bank balance on January 1, 1951.....	\$310.38
Income from Investments.....	84.50
A.A.A.S. Grant (1950).....	270.50
A.A.A.S. Grant (1951).....	248.00
Income January 1 to April 10, 1952.....	12.50

Total income and balance forwarded.....\$925.88

EXPENDITURES:

Grant to Mrs. Ethel Miller to help defray costs of Index to the <i>Ohio Naturalist</i> and <i>Ohio Journal of Science</i>	\$100.00
Grant to Miss Elizabeth W. Smith, Kent State U., "Research on Endocrinology in Bats".....	70.50
Grant to Committee on "Flora of Ohio," Dr. E. Lucy Braun, U. of Cincinnati, Chairman (1951 Grant).....	200.00
Grant to Miss Janice C. Beatley, Ohio State U., to aid in research project, "The Primary Vegetation of Jackson and Vinton Counties".....	60.00
Grant to Committee on "Flora of Ohio," Dr. E. Lucy Braun, U. of Cincinnati, Chairman (1952 Grant).....	188.00
Grant to William Adams, Jr., Muskingum College, for study of "Ferns and Fern Allies of SE Ohio".....	100.00
Bank charges.....	2.32
Total Expenditures.....	720.82
Balance on hand, April 10, 1952.....	\$205.06

Respectfully submitted,

K. G. A. BUSCH,
HERBERT OSBORN,
GEORGE B. BARBOUR, *Chairman*.

REPORT OF THE LIBRARIAN

The library is pleased to inform the Academy that its official journal is used in four hundred exchanges. Seventy percent of these exchanges are with public and private institutions in fifty-nine foreign countries. Thirty percent of the exchanges are with domestic institutions in forty-one states.

In many instances we receive two or three publications in exchange for the *Journal of Science*.

The largest number of foreign exchanges are with the following countries:

Argentina.....	12
Australia.....	15
Brazil.....	12
Canada.....	14
England.....	15
France.....	10
Italy.....	27
Japan.....	10
Spain.....	14
U. S. S. R.....	13

Thirty-two new exchanges have been added since September 1, 1951.

Sales of the Academy's publications for the year 1951 amounted to nineteen dollars and fifty cents (\$19.50). This sum was turned over to the Treasurer of the Academy.

Respectfully submitted,

MORTON COBURN, *Librarian*.

REPORT OF THE JOINT ADMINISTRATIVE BOARD OF THE
OHIO JOURNAL OF SCIENCE

The annual meeting of the Joint Administrative Board of the *Ohio Journal of Science* was held in Columbus, April 5, 1952. Present were Drs. Spieker and Meyer representing The Ohio State University, Drs. Tidd and Beaver representing The Ohio Academy of Science, and Drs. Green and Popham of the *Ohio Journal of Science* staff.

Dr. Spieker was re-elected to serve as Chairman of the Board. The minutes of the preceding meeting were read and approved.

The report of the Business Manager was mainly in the form of a financial statement for Volume 51, a copy of which is attached to this report. The report was accepted and filed.

The report of the Editor was read, accepted and an expression of confidence in the work of the Editor was ordered to be recorded in the minutes.

Following a discussion of the *Ohio Journal of Science* Award for Excellence in Research, lots were drawn and the section of Zoology was chosen as the field in which the award would be offered in the year 1952-53. The Board authorized the Editor to make necessary changes in the rules and regulations of the award contest to conform with the stipulation that all authors must be members of the Zoology section of the Academy.

A proposal by Dr. C. M. Wilson, the Book Review Editor, to establish a Book Notice Section as a regular feature of the Journal was carefully considered. The Board decided that the book review notices would be more frequently read if they remained scattered throughout the Journal and, in addition, the cost of printing would be held to a minimum in so doing.

The office of Associate Editor was established. The Board ruled that the duties of Associate Editor shall be to function when called upon by the Editor to do so. Dr. Green was empowered to select an Associate Editor subject to the approval of the Board at its next meeting.

The following staff of the Journal was elected by the Board to serve in the year 1952-53: Dr. E. L. Green, Editor; Dr. R. H. Bohning, Advertising Manager; Dr. R. A. Popham, Business Manager.

Dr. Spieker read the report of the auditors of the books of the Ohio Journal of Science for Volume 50, and announced that auditors found the accounts to be in order. The report of the auditors was accepted and filed.

A rather lengthy discussion ensued in which the matter of income to the Journal was discussed. The Business Manager was instructed to attempt to obtain an increase in the income budget for the year 1952-53.

There being no further business, the Board adjourned on a motion by Dr. Meyer, seconded by Dr. Beaver.

Respectfully submitted,

RICHARD A. POPHAM,
Secretary of the Board.

THE OHIO JOURNAL OF SCIENCE

Fiscal Year 1951

(Volume 51, Fiscal Year, January 18, 1951, to December 25, 1951)

RECEIPTS

Bank Balance, January 18, 1951.....	\$1,107.19
Ohio State University—Paid for subscriptions.....	1,800.00
Ohio Academy of Science—Paid for subscriptions.....	1,807.50
Non-members—Paid for subscriptions.....	404.50
Sale of separate numbers, volumes, and reprints.....	514.48
O.A.S.—Paid for one-half cost of plates.....	421.63
Ohio Academy of Science—Paid for Annual Report.....	101.88
Miscellaneous.....	0.00
Advertisements.....	1,116.97

\$7,274.15

EXPENDITURES

Spahr and Glenn—Printing Journal.....	\$4,326.61
Spahr and Glenn—Reprints.....	46.06
Mailing Envelopes.....	180.91
Advertising the O.J.S.....	75.00
Bucher Engraving—Plates.....	832.41
Postage and Express.....	211.99
Office Supplies and Bank Charges.....	108.67
Refunds.....	3.00
Secretary and Labor.....	118.86
Bank Balance, December 25, 1951.....	1,370.64

\$7,274.15

REPORT OF THE COMMITTEE ON NECROLOGY

The Necrology Committee has the sad duty of reporting the passing of eleven of our members during the period from April 1, 1951, to April 1, 1952.

Respectfully submitted,

H. H. M. BOWMAN, *Chairman.*

BERNICE GIEBNER

Miss Bernice Giebner, Professor of Biology at Jamestown Community College and member of the Botany Section since 1930.

Miss Giebner was born at Columbus, Ohio, on May 8, 1903, and after attending public schools in Columbus entered Ohio State University and was graduated with the B.Sc. degree in 1927. This was followed by a Master of Arts degree in 1941. From 1928 to 1943 she taught

science at Dana Avenue School in Columbus. From 1941 to 1943 she was research assistant to Dr. Meyer at Ohio State University and from 1943 to her death in 1952 was Assistant Professor at the Jamestown College.

She was a member of Sigma Xi, the Ohio and the New York Academy of Sciences, as well as the A.A.A.S. Her researches on the algae of Lake Chautauqua, N. Y., will be published during 1952. She died of coronary disease on March 1st, 1952, at Jamestown, N. Y., and was buried in Columbus, Ohio.

HERBERT ALBERT HOSTER

Dr. Herman Albert Hoster, Professor of Medicine and Medical Research at Ohio State University and member of Section D—Medical Science, since 1941.

Dr. Hoster was born in Columbus, Ohio on March 5, 1912, and later attended Yale University, from which he was graduated with the A.B. degree in 1934. He next went to Johns Hopkins Medical School and secured the M.D. degree in 1938. In 1938 he married Margaret Prentiss and after a divorce he married Marion E. Shanley in 1947. He is the father of two sons, Frederick Williams and Albert Stanton Hoster.

He held the following positions: Intern and Resident Staff, Jefferson Medical College Hospital, 1938-40; Research Fellow, Yale University School of Medicine, Department of Physiological Chem., 1940-41; Instructor, Department of Medicine, The Ohio State University, 1941-44; Assistant Professor, Department of Medicine, The Ohio State University, 1944-46; Associate Director, Division of Cancer Research, 1945; Associate Professor, Department of Medicine, The Ohio State University, 1946-47; Research Advisory, The Ohio State University Tumor Clinic and Columbus Cancer Clinic, 1946-1951; Professor and Coordinator of Oncology, Professor of Medicine, Department of Medicine, The Ohio State University, 1947-1951; Research Director, Columbus Cancer Center, laboratories and tumor registry, 1947-1951; President, The Hodgkin's Disease Research Foundation, Inc., 1947-1951.

He was a member of the following learned societies: American Association for the Advancement of Science; American Association for Cancer Research; American Chemical Society; American Medical Association; Columbus Academy of Medicine; Hodgkin's Disease Research Foundation (charter member); New York Academy of Medicine; Ohio Academy of Science; Ohio State Medical Association; Sigma Xi; Society for the Study of Experimental Biology and Medicine; Tissue Culture Association.

He served in the following boards: Member, Board of Directors, Columbus Cancer Clinic; Member, Board of Franklin County Unit of American Cancer Society; Executive Secretary, Research Advisory Committee on Cancer; Medical Advisor to Franklin County Tumor Registry; Vice-Chairman, Cancer Planning Committee, Metropolitan Health Council (Columbus).

On May 14, 1951, he succumbed to Hodgkin's disease in the study of which he had been a leader in research and was buried in Greenlawn Cemetery, Columbus, Ohio.

HELEN MORNINGSTAR LAMBORN

Dr. Helen Morningstar Lamborn, Fellow of Section C and one time Instructor of Geology at Ohio State University.

Dr. Lamborn was born in Columbus, Ohio, on September 23, 1891. She secured her Bachelor of Arts degree from Ohio State University in 1913 and a Master of Arts degree in 1915. In May, 1922, she received her Ph.D. degree from Bryn Mawr College. From 1917 to 1923 she had held the position of Instructor of Geology and Paleontology in Ohio State University and in 1920 was elected a Fellow of the Academy of Science. She married Mr. R. E. Lamborn in 1922 and became the mother of two children, Charles F. and Martha E. Lamborn. Dr. Lamborn was a member of Phi Beta Kappa, Sigma Xi, the A.A.A.S. and the Paleontological Society of America. She is the author of the following papers:

Pottsville Fauna of Ohio: Geological Survey of Ohio, Bull. 25 (1922) 312 pp., 16 plates.

Catalogue of Type Fossils in the Geological Museum at the Ohio State University: Ohio Journal of Science, vol. 24 (1924), pp. 31-63.

Dr. Lamborn died of arteriosclerosis and hypertension at Columbus on July 31, 1951, and was buried in Greenlawn Cemetery, Columbus, Ohio.

RALPH JAMES REYNOLDS

Mr. Ralph James Reynolds, Attorney and member of the Bar of Franklin County, Ohio, and Fellow of the Botany Section since 1949.

Mr. Reynolds was born November 23, 1890, at Horner, Ohio, and after attending public schools entered Ohio State University and received the Bachelor of Arts degree. Later he was graduated from the Law School of the University with the LLB degree. In 1929 he married Miss Alice Fairchild and to this union were born two children, Mrs. Mary E. Reynolds Ebert and James Albert Reynolds. Mr. Reynolds was president of the Audubon Society in Columbus, President of the Bexley Garden Club, The Franklin County Garden Club Council and president-elect of the Wheaton Club. He was also a member of the American Iris Society

and the Hemerucallis Society, the National Geographic Society and the Ohio Bar Association. While professionally a lawyer Mr. Reynolds was an enthusiastic horticulturist. He died of a heart attack in Columbus on August 3, 1951, and is buried in Greenlawn Cemetery of that city.

HORACE NEWELL ROSEBERRY

Dr. Horace Newell Roseberry, Fellow of Section F, Professor of Physics and Head of the Department of Physics at Ohio University, Athens, Ohio.

Dr. Roseberry was born on September 3, 1904, at Prescott, Arkansas, and after securing his Bachelor of Science degree at Davidson College in 1926 and an M.A. degree in 1928, he matriculated at Chicago University and received the M.Sc. degree in 1931. He then entered Johns Hopkins University and was awarded the Ph.D. degree in physics in 1936. He served in various academic ranks as a professor of physics at the University of Virginia, 26-27; Davidson College, 27-28; Maryland, 28-36; Professor and Head of Department at College of the Ozarks, 36-37, and Professor of Physics at Ohio University from 1937 until his death.

In 1929 he married Margaret Ross and to this union were born two children, Margaret Jane and Elizabeth Ann Roseberry. He was a member of the American Physics Society, the Association of Physics Teachers, the Illuminating Engineers Society and a Fellow of the Ohio Academy. He was a specialist in the X-ray field and light and sound. He studied the effect of chemicals on X-ray lines.

Due to a toxic condition as the result of a wasp sting he developed a cerebral hemorrhage and died on October 26, 1951, at Athens and is buried in the West Union Street Cemetery of that city.

ERNEST RICE SMITH

Prof. Ernest Rice Smith, Fellow of Section C and one time Professor of Geology and Paleontology at DePauw University, Greencastle, Indiana.

Prof. Smith was born on July 3, 1891, at Cameron, Missouri, and secured his A.B. degree at Oberlin College in 1912 and the M.A. degree in 1919. He studied at Cornell from 1914 to 1917 and at the Sorbonne in 1919. He became Instructor in mathematics and geology in Fisk College from 1912-1914 and an assistant in geology at Cornell, 1916-17. He was petrologist for the Sinclair Oil Co. from 1917-18 and Instructor in geology at Michigan in 1919-1920, at Oberlin from 1919-1920, and Professor of Geology and Paleontology at DePauw from 1921 to 1947. He was a Goldwin Smith Scholar at Cornell and Lt. in the U. S. Army in 1918-1919, a member of the American Paleontological Society, the Crystallography Society and the Association of Petroleum Geologists. He was also a Fellow of the Geological Society of France, as well as the Ohio, Indiana and Michigan Academies of Science. He was a Trustee and Vice President of the Paleontological Research Institute, 1949-1951. He was a specialist on the Pliocene and Pleistocene paleontology, Marine Mollusca, sedimentation and physiography. He died at Ithaca, N. Y., on March 20, 1952, of heart disease and was buried at Orwell, Vermont.

Surviving him is his wife, nee' Maysie E. Summers, to whom he was married in 1918, and two children, Mrs. Elizabeth F. Smith Herdman and William Rice Smith.

NELLIE STRICKLER

Mrs. Nellie Strickler, Member of Section A, died in Cadiz, Ohio, on March 29, 1952, of bronchopneumonia and was buried at Hilliards, Ohio.

She was born Nellie Henderson in Belmont County, Ohio, on November 30, 1885, and received her collegiate education at Ohio State University, specializing in Zoology. In 1935 she had married Mr. Strickler after many years as a science teacher in Ohio schools.

CARL NATHAN WEBB

Dr. Carl Nathan Webb, Fellow of Section H and Professor of Chemistry at Miami University.

Dr. Webb was born on September 11, 1900, at Montague, Michigan. He secured the Bachelor of Science degree from Northwestern University in 1925, the M.Sc. degree in 1926 and his Ph.D. degree from the same institution in 1935. In 1928 he had also earned an M.A. degree at Harvard University.

He served as instructor in chemistry at Harvard from 1927 to 1928 and from 1928 taught in the various academic ranks in the Chemistry Department at Miami University until his death, becoming Professor in 1947. In 1932 he married May Albertine Newton and to them was born one daughter, Beverly Elizabeth Webb.

Dr. Webb was a member of Phi Beta Kappa, Sigma Xi, Phi Lambda Upsilon and the American Chemical Society. His special field of study was organic chemistry. He died of coronary occlusion on December 14, 1951, and was buried at Oxford, Ohio.

ARTHUR BALDWIN WILLIAMS

Dr. Arthur Baldwin Williams, Fellow of Section A and Education Curator of the Cleveland Museum of Natural History.

Dr. Williams was born April 11, 1874, at Montclair, New Jersey, and secured his Bachelor of Arts degree from Yale in 1898. In 1932 he was awarded the M.A. degree from Western Reserve University and the Ph.D. degree in 1935. He was the ecologist for the Cleveland Museum of Natural History from 1929 to 1939 and Curator of Education from 1939 to his death, and also a member of the Board of Managers of the Museum. He was also on the Cleveland Metropolitan Park Board and City Park Naturalist since 1943. In 1901 he married Miss Emma Hanley and to them was born one daughter, Mrs. Edwin J. Spek. Dr. Williams was a member of Sigma Xi, the American Ornithologists Union and the Ecological Society of America. He was also a Senior Fellow of the American Institute of Park Executives and The Forestry Association of Ohio, a Fellow of the Ohio Academy, and the University Club of Cleveland. He died of coronary thrombosis on August 18, 1951, and was buried at Lake View Cemetery, Cleveland, Ohio.

IRA TEMPLIN WILSON

Dr. Ira Templin Wilson, Professor of Biology at Heidelberg College and Head of the Department there—also member of the Botany Section since 1930.

Dr. Wilson was born on January 29, 1895, at Jonesboro, Indiana, and after securing his Bachelor of Arts degree at Lake Forest College he entered Indiana University and received the Ph.D. degree. He was married in 1919 to Lillian Trifford and after her decease he married Theodora Land in 1932. They had three children, Robert Quentin Wilson, Gertrude Baker Wilson and Carolyn Wilson. In 1948, Dr. Wilson was president of the American Linnologists Society and he was also a member of the American Society of Zoologists, The Indiana Academy of Science, the Sigma Xi, the American Association of University Professors, the Michigan Academy of Science, Fellow of the Ohio Academy and of the American Association for Advancement of Science. He died of rheumatic heart disease in Tiffin, Ohio, on June 11, 1951, and was buried in that city.

JOHN J. WOLFORD

Dr. John J. Wolford, Associate Professor of Geology at Miami University and Fellow of the Geology Section of this Academy.

He was born near Xenia, Ohio, on November 29, 1903, and after his education in public schools entered Miami University from which he was graduated in 1926. He received the Master of Arts degree from Ohio State University in 1927 and the Ph.D. degree from Johns Hopkins University in 1932. He had joined the faculty at Miami in 1926 as assistant professor. Also in 1926 he had married Miss Vera Sturm; there is one child, Ursula Ann Wolford. Dr. Wolford was a member of Phi Beta Kappa, Sigma Gamma Epsilon and Phi Sigma societies. He was also a Fellow of the Geological Society of America; A.A.A.S.; Past Vice-President, Ohio Academy of Science and Fellow of the Association Geographical Society. He was a member of the American Society of Economic Geologists; American Petrology Association, Arctic Institute of America, and the Hawaiian Academy of Science. He was a Past Master of the Oxford Masonic Lodge, a Royal Arch Mason, the Isaac Walton League and Delta Chi Fraternity. Dr. Wolford died at Oxford on February 19, 1952, of Hodgkin's disease and was buried at South Charleston, Ohio.

A summary of this report shows that of the eleven deaths, six succumbed to heart disease, two to arteriosclerosis, two to Hodgkin's disease and one death from pneumonia. If Hodgkin's disease be considered a form of cancer of the blood then the statistics of eight deaths by cardiovascular disease and two of cancer again conform to the national mortality ratio for these diseases.

REPORT OF COMMITTEE ON RESOLUTIONS

Be it Resolved, that the members of the Ohio Academy of Science express to the faculty and administration of Kent State University their appreciation of the fine facilities furnished and the hospitality so freely extended, which have made our sixty-first annual meeting so pleasant and successful.

Be it further Resolved, that the members of the Ohio Academy of Science express their sincere appreciation to Doctor Eugene Van Cleef for his effective initiative and successful efforts in enlisting the interest and support of those corporations which have taken membership in the Academy.

Respectfully submitted,

G. B. BARBOUR,
A. W. LINDSEY,
H. R. EGGLESTON, *Chairman*.

ENROLL A NEW MEMBER

The Ohio Academy of Science was organized on December 31, 1891, at Columbus, was incorporated on March 12, 1892, and became affiliated with the American Association for the Advancement of Science early in 1920. Its membership has grown from 59 charter members to more than 1200. The membership is representative of the educational and scientific institutions of the State and includes quite a number of persons outside the State.

AIMS—According to the Constitution: "The objects of this Academy shall be the promotion of scientific research and the diffusion of knowledge concerning the various departments of science." In addition to research and publication, the Academy aids in securing legislation which is favorable to scientific projects, as conservation, topographic and geologic survey, and in other important scientific projects.

MEMBERSHIP—Membership is open to all persons interested in science. Members engaged in scientific work may be elected "fellows." Each member receives *The Ohio Journal of Science* and the publications of *The Ohio Biological Survey* for the regular annual dues of \$3.00. Institution and corporation memberships are also open to such organizations in the state.

SECTIONS—Each member is enrolled in *one* section for voting purposes, but is privileged to participate in the program on any section. To avoid excessive subdivision into sections as new fields of research develop, symposia which may cut across several fields of interest are scheduled at the annual meeting at hours which permit attendance of persons from various sections. Sections are listed below.

A—Zoology	E—Psychology	I—Mathematics
B—Botany	F—Physics & Astronomy	J—Science Education
C—Geology	G—Geography	K—Anthropology & Sociology
D—Medical Sciences	H—Chemistry	L—Conservation

MEETINGS—Annual meetings are held at a time and place fixed by the Executive Committee and the Council on the basis of invitations extended by educational institutions presented at the previous annual meeting. A regional plan is followed, so all areas of the state are covered over a period of several years. In addition to the program of scientific addresses and papers, field trips are frequently arranged.

OFFICIAL ORGAN—From 1892 to 1903, the *Journal of the Cincinnati Society of Natural History* and the technical series of *Bulletins of the Ohio Experiment Station* were the official organs of the Academy; in 1903 the *Ohio Naturalist* was made the official organ and continued as such until 1915 when the *Ohio Journal of Science* became the official organ. Its columns are open to members of the Academy for special contributions, subject to acceptance by the Editorial Board. Articles in all scientific areas appear in the *Journal*.

RESEARCH FUND—From 1898 to 1922, through the generosity of M. Emerson Mac-Millan, of New York, a fund was available annually for encouragement of research among the Academy members. An accumulation from this grant together with the annual grant from the A.A.A.S. makes grants for research available to Academy members. This fund is administered by a committee known as the Trustees of the Research Fund.

INFORMATION—Requests for information concerning any part of the Academy program should be addressed to the Secretary, who will either send a reply or will forward the request to the proper person for reply. The current Secretary is:

DR. RUSH ELLIOTT, Ohio University, Athens, Ohio.

THE OHIO ACADEMY OF SCIENCE

(Affiliated with the A.A.A.S.)

_____, 19____

I desire to become a Member of the Ohio Academy of Science. It is understood that my membership will begin immediately. Dues are attached* according to one of the following plans:

1. Application dated before July 1, \$3.00 dues for current year, Jan. 1 to Dec. 31, with all copies of The Ohio Journal of Science for the year.
2. Application dated after July 1, *check one option*:
 - ☐ \$3.00 dues for current year, Jan. 1 to Dec. 31, with all copies of The Ohio Journal of Science for the year; or
 - ☐ \$1.50 dues for last half of current year, July 1 to Dec. 31, with copies of The Ohio Journal of Science for last six months only.
3. Corporation and Institution Memberships—\$25.00 dues for the current year with copies of The Ohio Journal of Science for the year.

Name Dr. Mr. Miss Mrs. _____
Corp. Inst. _____ (Check title preferred. Please print name)

Address _____ City _____
(Print preferred mailing address)

Institution Affiliation _____

I wish to enroll and vote in Section _____ (one section only—see above).

*Make check payable to The Ohio Academy of Science, and mail to Dr. R. M. Geist, Treasurer, Capital University, Columbus 9, Ohio.